

DELYAGINA, L.P.; KRAVCHENKO, N.A.; TMR-AVAKYAN, N.P.; MIROSHKINA, S.K.

Significance of the agglutination reaction as a method for differentiating diphtheria from tonsillitis of different etiology in carriers of diphtherial germs. Pediatrīa 39 no.4:28-30 Jl-Ag '56. (MLRA 9:12)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta vaktsin i syvorotok imeni I.I.Mechnikova (dir. M.I.Sokolov)
(TONSILLITIS, differ. diag.
diphtheria, hemagglut. reaction in carriers of Corynebacterium diphtheriae)
(DIPHTHERIA, differ. diag.
tonsillitis, hemagglut. reaction in carriers of Corynebacterium diphtheriae)

TER-AVAKYAN, V. M.

"The Construction of Small Block Walls With Stone Materials
From the Armenian SSR." Cand Arch Sci, Yerevan Polytechnic Inst
imeni Karl Marx, Yerevan, 1954. (KL, No 7, Feb 55)

SO: Sum. No. 631, 26 Aug 55- Survey of Scientific and Technical
Dissertations Defended at USSR Higher Educational Institu-
tions (14)

TER-AVANESOV, Yu., inzhener.

New BTK-2 tubular tower crane. Stroitel' 2 no.6:21-22 Je '56.
(Cranes, derrick, etc) (MLRA 10:1)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755320006-2

TER-AVANESOV, Xu., inshener.

"Press-concrete" machine. Stroitel' 2 no.7:27 Jl '56. (MIRA 16:1)
(Precast concrete)

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755320006-2"

TER-AVANESOV, Yu., inzheber.

Switching tower cranes to different traces, Stroitel' 2 no.9:27-28
8 '56. (MIRA 10:1)
(Cranes, derricks, etc)

MERKUROV, K.; TER-AVANESOV, Yu.

Shop of the chemical combine has been finished in eight months. Stroitel' no.7:3-5 J1 '59. (MIMA 12:10)

1. Glavnnyy inzhener tresta Stalinogorskikhimuglestroy (for Merkurov). 2. Spetsial'nyy korrespondent zhurnala "Stroitel'" (for Ter-Avanesov).

(Stalinogorsk--Chemical plants)
(Precast concrete constructions)

MAMLEYEV, D., Geroy Sotsialisticheskogo Truda; TER-AVANESOV, Yu.

What's new in the Cherepovetsmetallurgstroy Trust. Stroitel'
no.7:3 J1 '60. (MIRA 13:8)

1. Upravlyayushchiy trestom Cherepovetsmetallurgstroy (for Mamleyev).
2. Spetsial'nyy korrespondent zhurnala "Stroitel'" (for Ter-Avanesov).
(Cherepovets---Metallurgical plants)

TEREAVANESYAN, L. V.

Mbr., All-Union Inst. Plant Culture, Leningrad, -clm"-.

"Genetic Diversity of Gametes in the Flower of Cotton-Plant," Dok. Ak., 44, No. 1, 144;

"Inheritance of Characteristics of Two Paternal Varieties in the Hybridization of Cotton Plants," Agrobiol, 4, 1949.

TER'AVANESJAN, D.V.

Ter'avanesjan, D.V. "One of the cause of variability in the cotton plant", (Insufficient pollination of the flower), Doklady Vsesoyuz, akad. s.-kh. nauk im. Lenina, 1949, Issue 1, p. 23-25.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

PAK-AVANISYAN, D. V.

25635

Rol' kolichestva fit'tsevykh zeren tsvetka v opodobnenii rasteniy. Trudy - Po prikl
Botanike, Genetike i Seleksii (Vsesoyuz. Inst. Rastenovedstva), T. XXVIII, VII. 2,
1949, s. 119-33. - Bibliogr: 3k. MAZV.

SO: IETCFS No. 34

[v.]
TER-AVANESIAN, D., GUREVICH, L.

Cotton

Significance of pollen quantity in cotton hybridization. Khlopkovodstvo, no. 5, 1952.

OCTOBER 1952

9. Monthly List of Russian Accessions, Library of Congress, _____, Uncl.

TER-AVANESYAN, D. V

N/5
632.831
.T3

Novyye metody v selektsii khlopychatnika (New Methods in the Selection of
Cotton Plants) Moskva, Sel'khozgiz, 1954.
109 p. illus., diagrs., tables.
"Literatura": p. (111)

TER-AVANESYAN, D.V.; GAUSMAN, I.V.

Biological importance of cotyledon leaves in the ontogenesis
of the cotton plant. Dokl. AN SSSR 109 no.5:1045-1048 Ag. 1956.
(MIRA 9:10)

1. Vsesoyuznyy institut rasteniyevodstva. Predstavлено академиком
A.L. Kursanovym.
(Cotton) (Ontogenet (Botany))

TER-AVANESYAN, David Vartanovich; POLYAKOV, I.M., redaktor: GAMZAYEVA, M.,
tekhnicheskiy redaktor

[Pollination and hereditary variation; effect of the quantity of
pollen on pollination and heritable variation] Opylenie i
nasledstvennaia izmenchivost'; rol' kolichestva pyl'tsy v opylenii
i nasledstvennoi izmenchivosti. Moskva, Gos.izd-vo "Sovetskais
nauka," 1957. 282 p.

(Fertilization of plants)
(Inheritance of acquired characters)

USSR/Cultivated Plants. Technical Plants. Oil and
Sugar Bearing Plants.

Author : Ter-Avanesyan, D. V., Trotsenko, N. G.
Inst : Turkmen and Central Asian Experiment
Stations of the All-Union Institute of
Plant Cultivation. Kirgizian Experiment
Station of the All-Union Scientific Re-
search Institute of Cotton.
Title : Geographical Variability of the World Cotton
Collection Specimens and Their Hybrids.
Orig Pub : Tr. po prikl. botan., genet. i selektsii,
1957, 30, No 3, 154-177

Abstract : In 1949 and 1951, at the Turkmen and Central
Asian Experiment Stations of the All-Union
Institute of Plant Cultivation, and also at
the Kirgizian Experiment Station of the All-

Card : 1/3

101

USSR/Cultivated Plants. Technical Plants. Oil and M
Sugar Bearing Plants.

Abs Jour : Ref Zhur-Biol., No 15, 1958, 68256

Union Scientific Research Institute of Cotton,
a study was made of 35 cotton specimens from
the All-Union Institute of Plant Cultivation
collection, with vegetation periods of various
length, as well as of a series of their hybrids.
The plants were studied under conditions of
sharply emphasized soil and climatic differen-
ces. Thus it was possible to clarify the in-
fluence of various environmental factors on
the development and the variation of character-
istics and properties of cotton. The best in-
dices in yield and fiber quality were obtained
at the Central Asian Experiment Station from
1306 and 915 quick-maturing varieties, and from

Card : 2/3

USSR/Cultivated Plants. Technical Plants. Oil and II
Sugar Bearing Plants.

Abs Jour : Ref Zhur-Biol., No 15, 1958, 68256

108-F, 18819, 2034, and 8517 median-maturing varieties. At the Kirgizian Experiment Station, the best economic indices were obtained from the 1306 and 915 quick-maturing varieties, and from 108-F and 18819 median-maturing varieties. At the Turkmen Experiment Station, the most productive varieties were 108-F, 18819, 2032, and C-450-555 g. Other varieties were not productive. -- A. N. Smirnov

Card : 3/3

102

TER-AVANESYAN, David Vartanovich; GRIGOR'YEVA, A.I., red.; GOR'KOVA, Z.D.,
tekhn. red.; PEVZNER, V.I., tekhn. red.

[The agriculture of India] Sel'skoe khozaiistvo Indii. Moskva,
Gos.izd-vo sel'khoz.lit-ry, zhurnalov i plakatov, 1961. 246 p.
(MIRA 14:12)

(India--Agriculture)

TER-AVANESYAN, David Vartanovich; LIPKINA, T.G., red.; YEZHOOVA, L.L.,
tekhn. red.

[Along the roads of India and Nepal] Po dorogam Indii i
Nepala. Moskva, Vysshiaia shkola, 1962. 156 p. (MIRA 16:5)
(India--Description and travel)
(Nepal--Description and travel)

TER-AVANESYAN, D. V.,

"New Methods in Cotton Hybridization."

report submitted for the 11th Intl. Congress of Genetics, The Hague, Netherlands,
2-10 Sep 63

278-AVANESYAN, D.V.

Significance of foreign pollen in cotton hybridization.
Agrobiologija no. 3, 386-390 My-Je '64. (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut rastaniyevodstva,
Leningrad.

TER-AVANESYAN, L.V., doktor biologicheskikh nauk

Importance of cultivative practices in the evaluation of coffee collection samples for breeding purposes. Dokl. Akad. Nauk SSSR. nauk no.2:16-20 F '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut rasteniyevodstva.

CHIRKOV, N.; TER-AVANSOEV, Yu.; TOLSTOV, A.

Fulfilling the decisions of the party. Stroitel' 9 no.3:14 Mr '63.
(MIRA 16:3)

1. Upravlyayushchiy trestdm Ryazan'zhilstroy (for Chirkov). 2. Spetsial'-nyye korrespondenty zhurnala "Stroitel'" (for Ter-Avanesov, Tolstov).
(Ryazan -Construction industry)

TER-AVETIKYAN, S.M.

22

... preparing asphalt from various crude oils. G. I. Shapiro and N. M. Ter-Avetyan. *Azneftshchinsk Neftyanoy Akad.* 1936, No. 11, 55-61. The coasts of asphalt from the following crude oils are discussed and tabulated: Balakhany, Lok-Betan and Sulu-Teppe A. A. Boehmung

TER-POGOSYAN, R.A., dotsent; TER-AVETISYAN, A.T.

Study of the reproduction of the phage T₁ in X-ray irradiated cells
of Escherichia coli B. Vop. radiobiol. [All Arm. SSRJ 3/4:1-76 '63.
(MIRA 1':6)

PAPOYAN, S.A.; TER-POGOSYAN, R.A.; KAMALYAN, L.A.; VARTEVANYAN, Zh.TS.;
TER-AVETISYAN, A.T.; YENGOYAN, M.N.

Study of the initial phase of the interaction between vaccine virus
and irradiated tissue culture cells. Vop. radicbiol. [AN Arm. SSR]
3/4:275-281 '63.
(MIRA 17:6)

KAMALYAN, G.V.; KAMALYAN, L.A.; TER-POGOSYAN, R.A.; VARTEVANYAN, Zh.TS.;
TER-AVETISYAN, A.T.

Some data on the effect of colamine on the development of vaccine
virus and the formation of antivariolar immunity. Vop. radiobiol.
[AN Arm. SSR] 3/4:283-287 '63. (MIRA 17:6)

USSR/Medicine - Infectious Diseases

Sep/Oct 51

"Effect of Ambient Temperature on the Speed With Which Blood Is Digested by the Ticks *Ornithodoros Papillipes*," I. K. Teravskiy, Chair of Gen Pathol and Parasitol imeni Ye. N. Pavlovskiy, Mil Med Acad imeni S. M. Kirov

"Zool Zhur" Vol XXX, No 5, pp 440-444

In view of the fact that the ticks *O. papillipes* transmit relapsing fever in the Tadzhik SSR, where they occur, their feeding habits are of importance. While the optimum temp at which the ticks digest

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USSR/Medicine - Infectious Diseases

Sep/Oct 51
(Contd)

blood is plus 17-26°, they do digest blood and feed on the host at 0° and lower temps, so that transmission by them of relapsing fever at these temps is possible.

TERAVSKIY, I. K.

LC

192T88

PA 192T88

PAVLOVSKIY, Ye.N., akademik; ~~PAVLOVSKY, I.K.~~

On the anatomy of carabid beetle *Anthia mannerheimi* Chd. (Coleoptera,
Carabidae). Ent. oboz. 35 no.4: 764-770 '56.
(MLRA 10:2)

1. Zoologicheskiy institut Akademii nauk SSSR, Leningrad.
(Asia, Central--Ground beetles)

TERAVSKIY, I.K.

*Ornithodoros lahorensis Neumann as a reservoir of spirochetes of
Central Asiatic tick-borne relapsing fever [with English summary
in insert]. Zool.zhur.35 no.12:1820-1824 D '56. (MLRA 10:1)*

*1. Kafedra obshchey biologii i parazitologii imeni akademika Ye.N.
Pavlovskogo Voyenno-meditsinskoy akademii imeni S.M. Kirova.
(Ticks as carriers of diseases)(Borrelia.)*

PAVLOVSKIY, Ye.N., akademik.; TERAVSKIY, I.K.

Effect of reduced atmospheric pressure and of certain gases upon the ticks *Ornithodoros papillipes* Bir. Dokl. AN SSSR 109 no.6:1133-1135
Ag '56.
(MIRA 9:11)

1. Voyenno-meditsinskaya akademiya imeni S. M. Kirova.
(TICKS)

TERAVSKIY, I.K.

Solid elements of the hemolymph in argasid ticks [with summary in English]. Zool.zhur. 36 no.10:1448-1454 O '57. (MIRA 10:11)

1. Kafedra obshchey biologii i parazitologii im. akad.
Ye.N.Pavlovskogo Voyenno-meditsinskoy akademii im. S.M.Kirova.
(Ticks) (Blood cells)

PAVLOVSKIY, Ye.N., akademik; TERAWSKIY, I.K.

Manual dissection of the Colorado beetle *Leptinotarsa decemlineata*
Say (Coleoptera, Chrysomelidae). Ent. oboz. 37 no. 3:653-658 '58.
(MIRA 11:10)

1. Voyenno-meditsinskaya akademiya imeni S.M.Kirova, Leningrad.
(Potato beetle)
(Dissection)

VENGOREK, V.; AKHREMOVICH, I.; PAVLOVSKIY, Ye. N., akademik; TERAVSKIY, I. K.

Method of preserving insects in the horse-radish phytocide for
subsequent manual dissection. Ent. oboz. 37 no. 3:659-660 '58.

(MIRA 11:10)

(Insecta--Collection and preservation)
(Horse-radish)
(Phytocides)

ALFEYEV, N.I.; BREGETOVA, N.G.; GNEZDILOV, V.G. [deceased]; GUTSEVICH, A.V.; KOSTYLEV, N.N.; NIKOLAYEV, B.P.; OLSUF'YEV, N.G.; PAVLOVSKIY, Yevgeniy Nikanorovich, akademik; PERVOMAYSKIY, G.S.; PEHFIL'YEV, P.P.; POMERANTSEV, B.I. [deceased]; SALYAEV, V.A.; SKVORTSOV, B.P.; SMIRNOV, G.G.; TERAVSKIY, I.K.; BLAGOVESHCHENSKIY, D.I., doktor, red.; RULEVA, M.S., tekhn.red.

[Laboratory manual on medical parasitology] Laboratornyi praktikum meditsinskoi parazitologii. Pod red. E.N.Pavlovskogo. Leningrad. Gos.izd-vo med.lit-ry, Leningr. otd-nie, 1959. 486 p.

(MIRA 12:9)

(MEDICAL PARASITOLOGY)

TERAVSKIY, I. K.

Dissertation defended at the Zoological Institute for the academic degree of Candidate of Biological Sciences:

"Circulation of the Causative of Tick Spirochetosis in the Organism of the Tick Ornithodoros papillipes Bir."

Vestnik Akad Nauk No. 4, 1963, pp. 119-145

ACC NR: AP7001080 (A,N) SOURCE CODE: UR/0439/66/045/003/0371/0374

AUTHOR: Teravskiy, I. K.

ORG: Chair of Biology and Parasitology, Military-Medical Academy im. S. M. Kirov, Leningrad (Kafedra biologii s parazitologiyey Voyenno-meditsinskoy akademii)

TITLE: The effect of ionizing radiation on Argas ticks

SOURCE: Zoologicheskiy zhurnal, v. 45, no. 3, 1966, 371-374

TOPIC TAGS: parasitology, animal parasite, ionizing radiation biologic effect, gamma ray, TICK

ABSTRACT: Larvae, nymphs, and adult ticks of species *Ornithodoros papillipes* Bir. infected with *Borrelia sogdiana* spirochetes (the agent of Central-Asian tick-borne spirochetosis) were subjected to Co⁶⁰ gamma irradiation. Irradiation of ticks with 50—10,000 r of gamma-rays did not kill spirochetes in nymphs or adult ticks. After irradiation ticks were still able to infect animals by bite and to transmit spirochetes transovarially. Doses of gamma rays above 2000 r were lethal for tick larvae and inhibited metamorphosis of ticks in all developmental stages. Doses of 5000 and 10,000 r sterilized males and females and considerably

Card 1/2

UDC: 595.421:577.391

ACC NR: AP7001080

inhibited metamorphosis of nymphs. In addition, metamorphosis in the offspring of irradiated females was retarded. Orig. art. has: 1 table [WA-50; OBE No. 14]

SUB CODE: 06/... SUBM DATE: none/ ORIG REF: 003 [JS].

Card 2/2

KAS'YAN, M.V.; TER-AZAR'YEV, I.A.

Obtaining slabs from Artik tuff by means of a circular saw. Izv.
AN Arm.SSR.Ser.JMET nauk 4 no.6:481-487 '51. (MLRA 9:8)

1. Institut stroitel'nykh materialov i sooruzheniy AN Armyanskoy
SSR.

(Artik--Stone cutting)

TER-AZAR'YEV, I. A.

KAS'YAN, M.V.; TER-AZAR'YEV, I.A., kandidat tekhnicheskikh nauk.

Problem of evaluating the workability of natural stones.
Mekh.stroi.ll no.10:28-31 O '54. (MLRA 7:11)

1. Chlen-korrespondent Akademii nauk Armyanskoy SSR (for
Kas'yan)
(Building stones)

TER-AZAR'YEV, I.A.

Effect of tool wear on specific forces in stonecutting. Izv. AN Arm.
SSR. Ser. FMET nauk 8 no.2:101-110 Mr-Ap '55. (MLRA 8:7)

1. Institut stroitel'nykh materialov i sooruzheniy Akademii nauk
Armyanskoy SSR. (Stonecutting)

TER-AZAR'YEV, I.A.

Cutting feed for natural rocks. Izv. AN Arm. SSR Ser PMET 9 no.2;
87-99 '56.
(MLRA 9:8)

1. Institut stroitel'nykh materialov i sooruzheniy Akademii nauk
Armyanskoy SSR.
(Stonecutting)

~~TER-AZAR'YEV, I.A.~~

~~Effect of the type of contact of cutting edges on stresses during
stonecutting. Izv.AN Arm.SSR.Ser.tekh.nauk 10 no.2:43-50 '57.
(MIRA 10:10)~~

1. Institut stroymaterialov i sooruzheniy AN Armyanskoy SSR.
(Stonecutting) (Strains and stresses)

AKOPOV, Robert Vladimirovich.; KAS'YAN, M.V., red.; TER-AZAR'YEV, I.A., red.;
AZIZBEKYAN, L.A., tekhn. red.

[Geometry of stonecutting tools] Geometriia rezkushchego instrumenta
pri rezanii kamnia. Erevan, Izd-vo AN Armianskoj SSR, 1958. 173 p.
(MIRA 11:11)

(Stonecutting--Equipment and supplies)

Sov/180-59-1-2679

AUTHOR: Polozanov, N.S.
TITLE: Conference on the Physics of the Disruption of Rocks and
 Tool Wear (Gor'kiy Metalurgicheskiy Politekhnicheskiy Institut)
PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh
 Nauk, Metalurgiya i Toplivo, 1959, N 1, pp. 123-124 (USSR).

ABSTRACT: On 18-20 November 1958 a conference was held at the Institute of Non-Metallic Materials of the Academy of Sciences of the USSR (Minin Institute) dealing with the physics of rock breakdown, based on "Some investigations in the Field of Mohr's Ring Construction", following reports by A.M. Zelenin, IUD AN SSSR on "Some investigations in the Field of Mohr's Ring Construction", A.L. Baykov, VUGI on "Physical Nature of Effects in the Cutting of Brittle Rocks", A.Ya. Kiselev, V.I. Tsvetkov, on "Mechanism of Rock Breakdown in Static and Dynamic Insertion of Punches", V.P. Savchikov, MIOSR, and Shish Chung-han (MILY) on "Experimental Investigation with the Aid of Radioactive Isotopes of the Process of the Introduction of Symmetrical Wedges (Stamp) into Rocks".
 Card 1/3 V.M. Matrosov, Torsionally polychromatically indurated (Torsak Polytechnic Institute), on "The Breakdown of Rock in Vibration-Location Drilling by the Core Method".

The second group dealing with tool durability heard the following reports: V. M. Matrosov (UD AN USSR) on "Abrasive Properties of Rocks and Their Influence on Drill-Edge Blunting (in Perforation Drilling)", N.I. Shevchenko, MIOSR, on Investigation of Rock-Blunting Tools with the Aid of Radiographic Isotopes; V.T. Serebrennikov, VUGI, on Investigation of Tool Durability in the Course of Impact Chipping of Rocks; L.S. Tsygankov, VNIIM, on "Main Tasks in Cutting-Tool Research"; L.S. Tsygankov, VNIIM, on "Local Tool Wear in Stone Drilling and Friction Work"; G.G. Karuk, Novosibirsk Polytechnicheskaya Institute (Novosibirsk Polytechnical Institute) on "Investigation of Shear-Blunting Polytechnical Institute" on "Investigation of Shear-Blunting Cutting-Tool Wear"; L.K. Kuznetsov, Opytno-Sialdovatel'nyy tsentr tsentral'nogo reseach'eskogo instituta (Central Research Institute) on "Investigating the Durability of the Drilling Tool and the Drillability of the Gabrook basalt of the Khibinsk Deposits".
 Card 2/3 All the lectures on the "Work of Drills and Cutters" were presented by representatives of the appropriate Soviet Institute: (Dnepropetrovsk Institute), Dnepropetrovsk Polytechnicheskii Institute, Dnepropetrovsk Mining Institute, Novocherkassk Polytechnicheskii Institute.

Card 3/3 Institute (Novocherkassk Polytechnicheskii Institute),

Kazan Polytechnicheskii Institute (Khar'kov Mining Institute),

Mining and Building Institutes and others. The

participants noted that little work had been done on some of the subjects discussed. It was recommended that work on the physics of rock disruption should be carried out mainly at the IUD AN USSR, the Institute of Geology and Paleontology (Akademy Nauk SSSR), Institute of Coal and Oil, and the Institute of Mineral Resources (UD AN USSR).
 Card 3/3 Work on "Tool Wear and Durability Preferentially at NPI", AISH, Odzrodnensk, TUGI, TAKIN, and the Institute everyday aplavot (Hard-Alloys Institute).

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~~TER-AZAR'YEV, I.A.~~

Basic rules of the wearing away of a cutting tool. Trudy Arm.
inst. stroimat. i soor. no.1:203-240 '59. (MIRA 14:12)
(Metal-cutting tools)

TER-AZAR'YEV, I.; VARDANYAN, K.

New disks for stonecutting machines for quarrying tuffs.
Prom.Arm. 4 no.1:31-36 Ja '61. (MIRA 14:6)

1. Armyanskiy institut stroitel'nykh materialov i sooruzheniy
Gosstroya Armyanskoy SSR.
(Stonecutting—Equipment and supplies)

TER-AZAR'YEV, I., kand.tekhn.nauk

Classification of natural building stones in Armenia according
to their machinability. Prom.Arm. 4 no.3:56-59 Mr '61.
(MIRA 14:6)

(Armenia—Building stones—Classification)

RUSAKOV, S.I., dots.; TER-AVAYUNYAN, I.A., dots.

[Size standardization of clothing in mass production; textbook for specialization in the "Technology of clothing manufacture"] Razmernaya standartizatsiya odezhdy massovogo proizvodstva; uchebnoe posobie dlia spetsial'nosti "Tekhnologija shveinogo proizvodstva." Moskva, 1962. 23 p.
(MIR^ 17:8)

1. Vsesoyuznyy zaochnyy institut tekstil'noy i legkoy promyshlennosti. Kafedra shveynogo proizvodstva.

AKOPOV, A.A.; ATSAGORTSYAN, Z.A.; SIMONOV, M.Z.; STEPANYAN, V.A.;
TER-AZAR'YEV, I.A.; RODIN, B.M.; STUGAREV, A.S., kand. tekhn.
nauk, nauchnyy red.; ZAYCHIKOVA, E.A., red.izd-va; KASIMOV,
D.Ya., tekhn. red.

[Production of natural stone wall materials and lightweight ag-
gregates] Proizvodstvo prirodnikh kamennykh stenovykh materialov
i legkikh zapolnitelei; sostoianie i perspektivy razvitiia. Mo-
skva, Gosstroizdat, 1962. 211 p. (MIRA 15:12)

1. Armyanskiy nauchno-issledovatel'skiy institut stroitel'nykh
materialov i sooruzheniy. 2. Armyanskiy nauchno-issledovatel'nyy
institut stroitel'nykh materialov i sooruzheniy (for Akopov,
Atsagortsyan, Simonov, Stepanyan, Ter-Azar'yev). 3. Nauchno-
issledovatel'skiy institut stroitel'nykh materialov i izdeliy
Akademii stroitel'stva i arkhitektury Ukr. SSR (for Rodin).
(Building stones)
(Aggregates (Building materials))

TER-AZAR'YEV, I.A., kand.tekhn.nauk; VARDANYAN, K.S., kand.tekhn.nauk

Choosing the design of disk saws of stonecutting machinery.
Stroi. i dor. mash. 7 no.12:24-25 D '62. (MIRA 16:1)
(Stonecutting—Equipment and supplies)

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CIA-RDP86-00513R001755320006-2

TER-AZAR'YEV, I., kand. tekhn. nauk; OGANYAN, T., inzh.;
SUVALYAN, P., inzh.

Cable sawing of tuffs. Prom. Arm. 6 no.11:37-40 N '63.
(MIRA 17:1)

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755320006-2"

TER-AZAR'YEV, I.A., kand.tekhn.nauk

Interdependency of the power required to cut rock and the degree
of dispersion of material produced during destruction. Stroi. mat.
9 no.2:35-37 F '63. (MIRA 16:2)

(Stonecutting)

KAS'YAN, M.V.; TER-AZAR'YEV, I.A.

Thermal phenomena during stonecutting. Izv. AN Arm. SSR. Ser.
tekhn. nauk 18 no. 3:25-32 '65. (MIRA 18:8)

I. Nauchno-issledovatel'skiy institut kamnya i silikatov
Soveta narodnogo khozyaystva ArmSSR.

USSR/Technical Crops. Oil Plants. Sugar Plants.

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77736.

Author : Terchenko, A.

Inst :

Title : New Cotton Varieties.

Orig Pub: Kyrgyzstandyn ayyyl charbasy, 1957, No 10, 18-20;
S.kh. Kirgizii, 1957, No 10, 16-18.

Abstract: Brief characteristics of early and average maturing cotton varieties (Osh-11, Osh-13, Osh-16, 147-F, Osh-9, S-4727 and others) developed by the Kirgiz Central Selection and Fergana Experiment Stations of the All-Union Scientific Research Institute of Cotton Cultivation. All new varieties are resistant to blight. After their approval in the state variety-test, the best varieties will

Card : 1/2

USSR/Technical Crops. Oil Plants. Sugar Plants.

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77736.

be recommended for distributing in the districts
of the cotton zone of Kirgizia. -- A. M. Smirnov.

Card : 2/2

92

GASANOV, Kh.A.; ALEKPEROV, I.I.; TER-BAGDASAROVA, I.K.

Rare case of acute radiation sickness with neuropsychic disturbances.
Izv. AN Azerb.SSR. Ser. biol.i med.nauk no.4:111-115 '63,

(MIRA 17:4)

USSR/Meadow Cultivation.

L

Abs Jour : Ref Zhur Biol., No 14, 1958, 63261
Author : Ter-Danielyan, V.M., Ulitchev, I.S.
Inst :
Title : The Creation of Highly Productive Hay Harvests and Pastures on Arid Steppes.
Orig Pub : Ovtsevodstvo, 1957, No 12, 31-32

Abstract : Conducted investigations have indicated the feasibility of an accelerated creation of highly productive hay harvests and pastures in the arid steppes of southwestern RSFSR and northwestern Kazakh SSR. Moreover, the best method of pre-sowing treatment of the soil is deep plowing and the use of a more suitable culture -- the broad-spiked wheatgrass.

Card 1/1

ULITCHEV, I.S., kand. sel'skokhozyaystvennykh nauk; TER-DANIYELYAN, V.M.,
kand. sel'skokhozyaystvennykh nauk.

Harvesting alfalfa and esparto seed plants. Zemledelie 6 no.6:12-13
Ja '58. (MIRA 11:6)

(Alfalfa—Harvesting)
(Esparto—Harvesting)

ANGEL'YEV, D.D.; BORISENKO, N.P.; UL'YANKIN, I.P.; SOLDATOV, I.N.;
TER-DANIELYAN, V.M.; GREETSOV, P.P., red.; SOKOLOVA, N.N.,
tekhn. red.

[Overl-all mechanization on the "Gigant" State Farm] Kompleks-
naya mekhanizatsiya v sovkhoze "Gigant." [By] D.D. Angel'ev.
Moskva, Sel'khozizdat, 1962. 171 p. (MIRA 16:3)

1. Direktor sovkhoza "Gigant" Rostovskoy oblasti (for Angel'ev).
2. Starshiye nauchnyye sotrudniki Severo-Kavkazskogo filiala
Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'-
skogo khozyaystva (for Ul'yankin, Ter-Danielyan).
(Farm mechanization)

SHIRAKATSI, Ananiya; TER-DAVTYAN, K.S. [translator]; AREVSHATYAN,
S.S. [translator]; KHACHIKYAN, L.S., red.; AZIZBEKYAN, L.A.,
tekhn. red.

[Cosmography] Kosmografiia. Predisl. i kommentarii K.S.Ter-
Davtian i S.S.Arevshatiana. Erevan, Izd-vo AN Armianskoi SSR,
1962. 127 p. Translated from the Old Armenian. (MIRA 16:7)

(Cosmography)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755320006-2

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755320006-2"

TANASESCU, I., acad. [deceased]; GANEA, I.; HODOSAN, F.; TERDIC, M.

Nitroester of the cholic-acid class. Rev chimie 4 no.2:189-197
'59. (EEAI 9:?)

1. Comite de redaction, Revue de Chimie; Mitglied der Akademie der
Rumanischen Volksrepublik (for Tanasescu)
(Nitro group) (Esters) (Cholic acid)

BODEA, C.; TERDIC, M.

Bromination and thiocyanuration of phenothiazine sulfoxide.
Studii cerc chimie Cluj 14 no.1:165-172 '63.

1. Institute of Chemistry, Rumanian Academy, Cluj Branch.
2. Corresponding Member of the Rumanian Academy (for Bodea).

TERDIMAN, N., ing.

Technical and economic indexes of Moscow electric central
heating. Energetica RUM 9 no.3:119-121 Mr '61

ZASTREZHKO, Yu.S.; TERLOVICH, A.S.; KURISHKO, V.A.

Possibility of flush production of thermal waters with static
levels below the earth's surface. Neft. i gaz. prom. no.2:34-37
(MIRA 18:6)
Ap-Je '65.

MARKARYAN, L.P.; TERDZHANYAN, E.Ye.

Evaluating the role of cerebellum in the higher nervous activity
of dogs. Izv. AN Arm. SSR. Biol. nauki 14 no.11:65-71 N '61.
(MIRA 15:3)

1. Kafedra akusherstva i ginekologii Yerevanskogo medit-
sinskogo instituta, Fiziologicheskaya laboratoriya Nauchno-
issledovatel'skogo instituta akusherstva i ginekologii
i Fiziologicheskaya gruppa sektora radiobiologii AN Armyanskoy
SSR.

(CEREBELLUM)
(NERVOUS SYSTEM)

ALAVERDYAN, M.I., dotsent; GEZALIAN, L.S., kand. biol. nauk; MARUKYAN, T.Kh.,
mladshiy nauchnyy sotrudnik; TERDZHANYAN, O.Ye.; OKHIKYAN, V.M.,
starshiy laborant

Effect of decortication and X-rays on the phagocytic activity of
leucocytes in rabbits. Vop. radiobiol. [AN Arm. SSR] 3/4:47-52
'63. (MIRA 1':6)

TERE, I., akademik (Vengriya)

New form of cell division mechanism. Izv. AN SSSR. ser.biol. no.1:
13-23 Ja-F '55. (MLRA 8:3)
(CELL DIVISION,
mechanism)

RUSNYAK, Istvan [Rusznyak, Istvan], akademik ; TERE, Imre, akademik

The course of Darwinism in Hungary. Agrobiologija no.5:746-751
S-O '59.

(MIR 13:2)

1. Prezident Akademii nauk Vengrii (for Rusnyak).
(Hungary--Biological research)

PAPP, M.; RELIKH, P.; RUSNYAK, I.; TERE, I.

Ultrastructure of the central lacteal sinus of the intestinal villus. Arkh. anat., hist. i embr. 42 no.6:24-29 Je '62.
(MIRA 15:6)

1. Otdel patologicheskoy fiziologii i morfologii Instituta eksperimental'noy meditsiny Vengerskoy akademii nauk (dir. - akademik Ishtvan Rusnyak) i Instituta histologii i embriologii Budapestskogo meditsinskogo universiteta (dir. - akademik Imre Tere). Adres avtorov: Vengriya, Budapest, Institut eksperimental'noy meditsiny Vengerskoy AN i Institut histologii i embriologii Budapestskogo meditsinskogo universiteta. Otdel patologicheskoy fiziologii i morfologii.

(INTESTINES)
(ELECTRON MICROSCOPY)

TEREBETIK, D.

29209. Avtoklav ili pnevmopress. (metody formovaniya obshivki sulov i z. sivorn s primech., red) Froktirovaniye i postroyki malikh sulov, No. 1, 1949, 636-45

SO: Letopis' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

TEREDINING

NAME: Book publications 30/000

Author(s), Ed., etc.: Institute of Technical Sciences
Special Library 1 Angolya, Izmailobodzhomye glasshi; abroad's library (Glass
Solutions and Other Construction Plastic Collection) Moscow,
Gorky, 3060, 107-11. Books also inserted. 70,000 copies printed.

No. of publishing house: L.L.-Gor'kiy; Noch.-Na.: N.A. Publishing-House 26-1
Leningrad, Russia.

Data collection of articles is intended for personnel of plants, design
shops, and scientific research institutes.

The collection of articles contains experimental data on glass reinforcing
structural plastics. The papers describe the physical, mechanical, and other
interesting properties of laminated and compound plastics under normal and
temperature conditions. They include the technological methods of manufacturing
these materials. Glass fibers are the basic reinforcing filaments used in electronics, the
manufacture of aircraft structures, and in construction. The collection also contains a
description of some of the laminated plastics with respect to both
physical and electrical properties of glass reinforced and in
reinforced plastic. The possibility of (partial) mechanical, and
electrical reinforcement of glass structures by using plastic of chlorine
resistant properties of glass structures, as well as plastic of chlorine
(As, NaCl, Na₂O), and pottery plastics (Fer, and SiO₂) under
the effect of temperature is also covered. In general, the data contained
are as follows:

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Khlebnikov, N.N., and V.A. Kostylev [with the participation of Nester Tsvetkov
and N.I. Kostylev] Structural Strength of Reinforced Electrical Glass
Solutions 77

Kostylev, N.N. [with the participation of A.M. Kostylev, and V.P. Shilov] 21
Glass Solutions Based on Polymer Acrylate Binders
and Their Properties 21

Khlebnikov, N.N., and S.V. Lebedeva. Mechanical Properties of Glass Solutions
Based on Potassium Borate 26

Khlebnikov, N.N., and G.D. Semenov. Mechanical Properties of Reinforcing Large Size Articles 27

Khlebnikov, N.N., and G.D. Semenov. On the Mechanical Characteristics of Some
Reinforcing Plastics With Respect to the Strength of Rolled or Riveted Joints 78

Azaryan, E.Y. Glass Cloth Insulating Pillars and Their Properties 100

Saburov, V.A., V.L. Saburova, and G.I. Slobodina. New Fording
Technique for Rolling 120

Saburov, V.A., G.I. Slobodina, and V.L. Saburova. Changeability of
Physical, Mechanical, and Electric Insulating Properties of Some
Insulating Materials Under the Effect of Temperature and Other Factors 139

TRANSLATOR: Library of Congress

COUNT: 2/2

2/2

7

Terebenina, A.

Extraction as a method for studying the chemical composition of black coal. P. 14.
TEKHNIKA. (Suiuz za nauchno-tekhnickeskie druzhestva v Bulgaria) Sofiia, Bulgaria.
Vol. 8, no. 9, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb. 1960.
UNCL

TEREBENINA, A.; ANGELOVA, G.

Composition of the ashes of alcohol-benzol extracts in certain
Bulgarian coals. Doklady BAN 15 no.5:495-498 '62.

1. Predstavleno akad. D. Ivanovym, chlen Redaktsionoy kollegii,
"Doklady Bolgarskoy Akademii nauk".

TEREBENINA, A.; ANGELOVA, G.

Studies on the bonds of the mineral part with organic substances
in coal. Doklady BAN 15 no.7:739-742 '62.

1. Chlen Redaktsionnoy kollegii, "Doklady Bolgarskoy Akademii
nauk". Pr^{ed}stavlena akad. D. Ivanovym [Ivanov, D.].

24.3450

24.1800

69278

S/051/60/008/04/025/032
E201/E691AUTHORS: Losev, S.A., Generalov, N.A. and Terebenina, L.B.TITLE: On the Absorption of Ultraviolet Radiation Behind a Shock Wave in Air

PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 4, pp 569-571 (USSR)

ABSTRACT: The absorptive power (in the ultraviolet region) of hot air behind the front of an incident shock wave was measured using a shock tube.¹ The low-pressure chamber of the tube was filled with air at a pressure of 7.6-76 mm Hg. The high-pressure chamber was filled with hydrogen at a pressure of 12-80 atm. The shock-wave velocities varied from 2 to 3.5 km/sec and the gas temperature behind the shock-wave front was 2000-3300°C. The ultraviolet radiation was emitted in pulses by a DKSSh-1000 lamp; it passed through the shock tube and was recorded by a quartz monochromator with a Cornu prism and a photomultiplier FEU-18 coupled to an oscilloscope OK-17 M (a typical oscillogram is shown in Fig 1). The optical path inside the shock tube was 5 cm. The absorptive power of air behind the shock-wave front was measured at wavelengths of 2250-3400 Å. Control tests showed that ultraviolet emission by hot air and its impurities was not recorded by the photomultiplier. Scattered light was allowed for in calculations of the

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E201/E691

On the Absorption of Ultraviolet Radiation Behind a Shock Wave in Air

absorptive power; it accounted for 5-15% of the signal at short wavelengths and for about 5% of the signal at long wavelengths. The results (Fig 2) show that the absorptive power rises from ~0.05 at ~3400 Å to ~0.55 at ~2300 Å. In the 2800-3200 Å region absorption maxima can be seen. The absorptive power was found to rise with increase of pressure and temperature, particularly at longer wavelengths. As before (Refs 1-3), the absorption was due to oxygen and nitrogen oxide bands. There are 2 figures and 6 references, 2 of which are Soviet and 4 English.

✓

SUBMITTED: August 4, 1959

Card 2/2

TEREBENKOVA, Ye. M.

~~Protective ointment. Kons. i ov. prom. 13 no.5:9-10 My '58.~~
(MIRA 11:5)

1.Labinskij konservnyj zavod.
(Food industry--Safety measures)

TEREBENKOVA, Ye.M.

We are preparing for a worthy welcome to the 22d Congress of
the CPSU. Koms. i ov. prom. 16 no.7:9 Jl '61. (MIR: 14:8)

1. Labinskiy konservnyy zavod.
(Labinsk--Canning industry)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755320006-2

KORNYEI, Jozsef, dr.; TEREBESI, Laszlo, dr. [deceased]; Terebesi,
Laszlo, dr. [deceased]; ARADI, Antal

Chloration of red mud. Koh lap 12 no. 10:460-465 0 '57.

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755320006-2"

TEREBILIN, G.I., teknik

Switching of a three-phase motor into a single-phase network
Energetik 13 no.8:16 Ag '65. (MIRA 18:9)

L 18203-63 EWP(r)/EWP(q)/EWT(m)/BDS AFFTC/ASD EM/JD
ACCESSION NR: AT3006068 S/2938/63/000/000/0053/0071

AUTHORS: Andreyev, K. K.; Terebilina, Yu. A. 27

TITLE: Explosion through impact and patterns of sensitivity of explosives to mechanical action. Mechanism of creating an explosion through impact.

SOURCE: Teoriya vzryvovchetykh veshchestv, sbornik statey, 1963,
53-71

TOPIC TAGS: explosive, sensitivity of explosive, impact testing machine.

ABSTRACT: Authors proposed a complex method for determining the specific sensitivity of an explosive to mechanical action. The explosive is subjected to impact between the faces of two large-diameter rollers wherein the space encircling the junction of the rollers is open. The amount of weighed portion of the explosive as well as its distribution on the face of the roller is altered. The advantage of this method in comparison to standard ones is the great ability to

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L 18203-63

ACCESSION NR: AT3006068

differentiate chemical and physical factors and an efficient design
of the instrument which actually increases its longevity and uniform-
ity of test conditions, and, at the same time, reducing the costs of
these tests. Orig. art. has: 3 tables.

6

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 14Jun63

ENCL: 00

SUB CODE: AR, CH

NO REF SOV: 000

OTHER: 000

Card 2/2

L 18207-63 EPR/EPA(b)/EPF(c)/EWT(1)/EWP(q)/EWT(m)/BDS AFFTC/ASD Ps-4/
Pd-4/Pr-4 RM/WW/JD S/2938/63/000/000/0072/0081
ACCESSION NR: AT3006069 75

AUTHORS: Andreyev, K. K.; Terebilina, Yu. A.

TITLE: Effect of air inclusions upon onset of explosion through
shock

SOURCE: Teoriya vzryvchayushcheshchestva, sbornik statey,
1963, 72-81

TOPIC TAGS: explosive , air inclusion during explosion, nitro-glycerine, lead azide

ABSTRACT: Authors performed experiments to compare the sensitivity of some liquid and solid explosives. The experiments were conducted in a roll-type apparatus. Nitroglycerine, lead azide and other highly-sensitive explosives produced a high explosion frequency when the sphere used for detonation is positioned, not on top of the exploded material, but some distance above it. It was also established that an increase or considerable decrease in the high explosive liquid decreases the explosion frequency. Thus, the

Card 1/2

L 18207-63
ACCESSION NR: AT3006069

results of the experiments are quite sensitive to the conditions of the experiments. This effect apparently is connected with the clamping device, and with the compression and flow of air which results in the ignition of the explosive. Orig. art. has: 3 tables and 4 figures.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 14Jun63

ENCL: 00

SUB CODE: AR, CH

NO REF SOV: 002

OTHER: 003

Card 2/2

L 18206-63
EPR/EPP(c)/EPP(n)-2/EWP(q)/EWT(m)/BDS AFFTC/ASD/IJP(C)
SSD Ps-4/Pt-4/Pu-4 RM/WW/JD
ACCESSION NR: AT3006070

S/2938/63/000/000/0081/0089

AUTHORS: Andreyev, K. K.; Terebilina, Yu. A.

TITLE: Mechanism of onset of explosion during testing for shock sensitivity in roller instrument

SOURCE: Teoriya vzryvchayushch veshchestv, sbornik statey, 1963,
81-89

TOPIC TAGS: explosive, shock sensitivity, shock sensitivity test,
impact tester for explosive, No. 1 explosive testing machine, No. 2
explosive testing machine

ABSTRACT: Authors carried out a number of experiments in order to prove that the flow of an explosive in the circular space of a roller instrument can lead to an explosion. They also wanted to gain precise knowledge as to why such a flow will lead to an explosion. They also found that, under ordinary test conditions, even organic, non-explosive substances decompose on the impact tester. This pointed out the fact that the flow during impact leads to a pronounced heat-

Card 1/2

L 18206-63
ACCESSION NR: AT3006070

ing. Two variations of an impact testing instrument were used. One series of tests was carried out to explain the effect of a change in the directional movement of an explosive. Results are shown in a table outlining the various conditions of testing and data obtained through these test modifications. Another series of tests was carried out with a limitation of the efflux of a liquid explosive. A third series of tests were performed under conditions where there was no explosive between the roller faces of the roller machine. Tetryl was used in the tests. Authors conclude that those flow conditions which bring about an explosion in the instrument are very specific and, therefore, the test results produce only a very conditional characteristic of the sensitivity of an explosive. Orig. art. has: 6 figures and 2 tables.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 14Jun63

ENCL: 00

SUB CODE: AR, CH

NO REF SOV: 002

OTHER: 000

Card 2/2

MUSHENKO, D.V.; MUSHENKO, V.M.; TEREVILLOVA, M.A.

Determination of fluorine in an aluminosilicate catalyst and in
alumina by hydrolysis with superheated steam. Trudy VNII Neftekhim
no. 3:112-115 '60. (MIRA 14:2)
(Fluorine--Analysis) (Aluminosilicates)
(Alumina)

KATSMAN, S.V.; MUSHENKO, D.V.; TEREBILOVA, M.A.

Contact coking and catalytic cracking of fuel oil from Tuymazy
Devonian oil. Trudy VNINeftekhim no.3:116-141 '60. (MIRA 14:2)
(Petroleum as fuel)

KOBELEV, V.A. [deceased]; MUSHENKO, D.V.; TELEGIN, V.G.; TEREBOLOVA, M.A.

Decomposition of fluorides and removal of fluorine from alkylates.
Trudy VNII Neftekyim no.3:214-218 '60. (MIRA 14:2)
(Alkyl fluorides) (Fluorine)

4. KOBELEV, V.A. [deceased]; MUSHENKO, D.V.; TELEGIN, V.G.; TEREBILOVA, M.A.

Removal of fluorine from alkylates by means of copper-aluminum alloys.
Trudy VNII Neftekhim no. 3:219-222 '60. (MIRA 14:2)
(Alkyl fluorides) (Fluorine)

RYABININ, L., inzh.-major; TEREBIN, I., inzh.-major

Attention: silver-sino batteries. Av. 1 koem. no. 2:86-90
(MRA 19:1)
P '66.

L 01275-67 FSS-2/EWT(1) DS
ACC NR: AP6007303

SOURCE CODE: UR/0209/66/000/002/0086/0090

AUTHOR: Ryabinin, L. (Engineer, Major); Terebin, I. (Engineer, Major)

46
113
B

ORG: none

v1 v1

TITLE: Silver-zinc batteries

v1

SOURCE: Aviatsiya i kosmonavtika, no. 2, 1966, 86-90

TOPIC TAGS: silver zinc battery, electrocrystallization / 15STS-45 silver zinc battery

ABSTRACT: The 15STS-45 silver-zinc battery is now widely used in aviation because of its small weight per unit of power, small dependence of output power on discharge current, and relatively stable voltage. The operation of these batteries requires special attention to prevent spontaneous ignition caused by the steplike changes of voltage during discharge and the decrease in output power at negative temperatures. The chemical reactions during discharging and recharging of the battery are: (1) $\text{Ag}_2\text{O} + \text{Zn} \rightleftharpoons 2\text{Ag} + \text{ZnO}$, and (2) $\text{AgO} + \text{Zn} \rightleftharpoons \text{Ag} + \text{ZnO}$. The separation of zinc by the discharge of zincate ions from the electrolyte, which are present in the pores of the electrode may cause their growth in the form of acicular dendrites (electrocrystallization). The crystals of zinc dendrites growing through separator films may form a bridge between the positive and the negative electrodes and cause an internal short circuit. To prevent electrocrystallization, the active masses of electrodes are taken in such

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L 01275-67

ACC NR: AP6007303

3

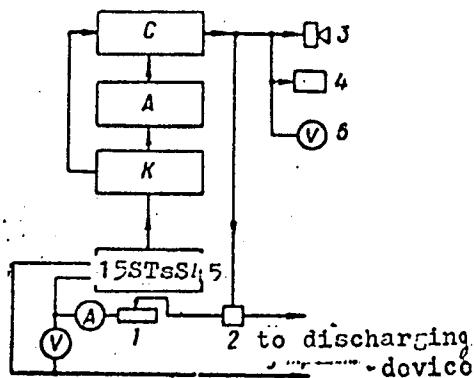
ratio that, after complete charging of the battery, the zinc electrode contains an excess of zinc oxide. Nevertheless, electrocrystallization occurs. The rate of growth of the zinc dendrites through the separating walls depends on many factors: quality and thickness of separators, number of layers of separating films, current density during recharge, and the exposure (time) of the separating film to the alkaline solution. Vibrations, shock stresses, and temperature changes also affect the process. The generation and growth of an increasingly larger number of new sources of internal short circuiting is promoted also by an increase in the recharging current, because the battery is switched to a generator having a constant voltage. The current density increases in places of internal short circuiting because of the same direction of recharging and short-circuit currents. This results in local overheating, liberation of gases, splashing of electrolyte, and ignition of the caprone jacket and separating films, and may ignite the entire battery. The switching off of the ignited battery extinguishes the flame because of a lack of oxygen (the batteries are in sealed containers with heat-insulating jackets). The ignited battery, if not switched off, can cause an explosion because of the ignition of oxygen and hydrogen gases. Self-ignition of the 15StsS-45 battery can be prevented by a strict control of voltage during discharge and recharge of the battery. But this is time consuming. E. Kuskov, A. Fetisov, and N. Sukonnikov have designed a small semiautomatic device (see figure) for the control of voltage during charging and recharging. It consists of a commutator K, an analyzer A, and a signal device C. The commutator switches each battery on and off alternately to the analyzer. The time of commutation of each battery is controlled by the combined

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L 01275-67

ACC NR: AP6007303

action of the analyzer and the signal device. The signal device C signals on a switch-board 4 the number of the battery in which the voltage is out of range 1-2.1 v, switches on a ring or siren 3, and, after a certain time, switches off the battery from the feeding source. It also connects a voltmeter 5 (0.5-1 v) with the battery. Orig. art. has: 5 fig. and 2 formulas.



SUB CODE: 10/ SUBM DATE: none

Card 3/3 mjs

ACC NR: AP6030932

SOURCE CODE: UR/0207/66/000/004/0133/0138

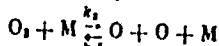
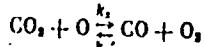
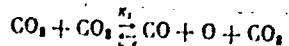
AUTHOR: Losev, S. A. (Moscow); Terebenina, L. B. (Moscow)

ORG: none

TITLE: Kinetics of dissociation of carbon dioxide molecules behind a shock-wave front

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1966, 133-138

TOPIC TAGS: gas dissociation, dissociation constant, shock tube, shock wave, diatomic molecule, equilibrium flow, reaction rate, CARBON DIOXIDE, SHOCK WAVE FRONT

ABSTRACT: The kinetics of carbon dioxide dissociation at high temperatures (up to 6000K) are studied by considering the problem of gas molecule dissociation in flows behind a shock-wave front propagating in pure CO₂. It is assumed that equilibrium with respect to all internal degrees of freedom is established very rapidly behind the shock-wave front and that the following reactions developed:

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where K_j and K_j' - are constants of direct and reverse reaction rates. The distribution of thermodynamic properties and concentrations of gas components behind the shock-wave front were calculated by the Runge-Kutta method on a computer for 30 sets of shock wave velocities and gas pressures. The mole fractions of gas components at $T_0 = 4450K$ at $p = 0.188$ atm for various values of the second reaction rate constant K_2 , and the specific reaction rates for three reactions are given in graphs. They show the early prevalence of the first reaction (1 μ sec), then the development of the second which may overcome the first, while the effect of the third reaction is relatively small. The theoretical results were substantiated by experiments carried out with CO_2 in a shock tube. The state of the gas was determined by measuring the degree of absorption of ultraviolet radiation due to the passage of shock waves. An analysis of the results shows that dissociation process behind the shock wave front at velocities $V \sim 30$ to 4 km/sec at near-atmospheric pressure begins with the reaction $\text{CO}_2 + \text{CO}_2 \rightarrow \text{CO} + \text{O} + \text{CO}_2$, then very rapidly (in a fraction of a microsecond), enough oxygen atoms are produced to start the second reaction $\text{CO}_2 + \text{O} \rightarrow \text{CO} + \text{O}_2$. After 2—3 μ sec, the rates of both reactions are practically equal and from then on the reaction $\text{CO}_2 + \text{CO}_2 \xrightarrow{K_{12}} 2\text{CO} + \text{O}_2$ takes place. Consequently, the part of the second reaction in the kinetics of CO_2 dissociation is significant. It is concluded that calculations carried out here confirm the possibility of experimental determination of the first reaction rate constant at the very beginning of the equilibrium zone ($t \leq 1 \mu\text{sec}$) where the part of the second reaction is still small. Orig. art. has: 5 figures and 28 formulas.

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